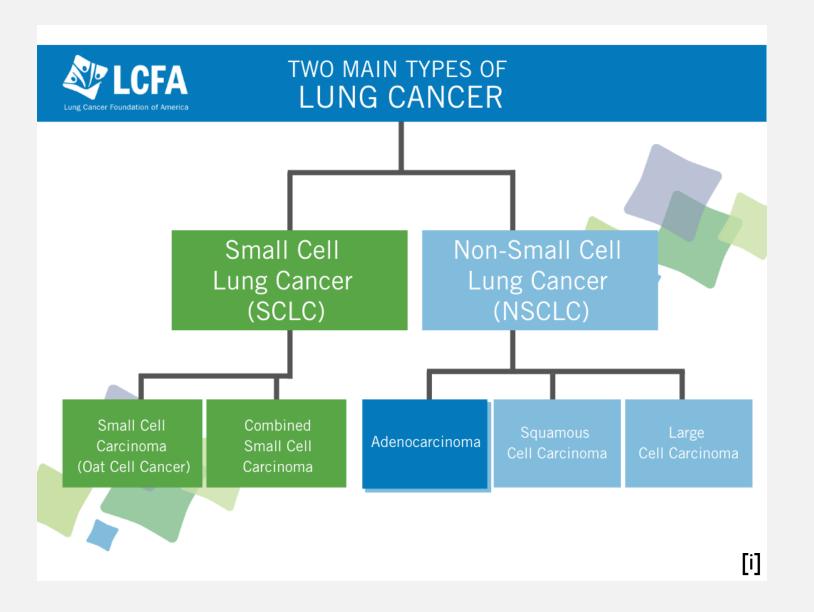
SURVIVAL ANALYSIS

NCIT:C3355 Respiratory System Neoplasm

RESPIRATORY SYSTEM NEOPLASM

- A benign or malignant, primary or metastatic neoplasm involving the respiratory system (Tracheal, Lung, Bronchial) [1]
- Lung cancer is the number one cause of cancer deaths among men and women worldwide [2]
- Our final dataset contains information about various lung carcinomas
- Carcinoma is cancer that forms in epithelial tissue



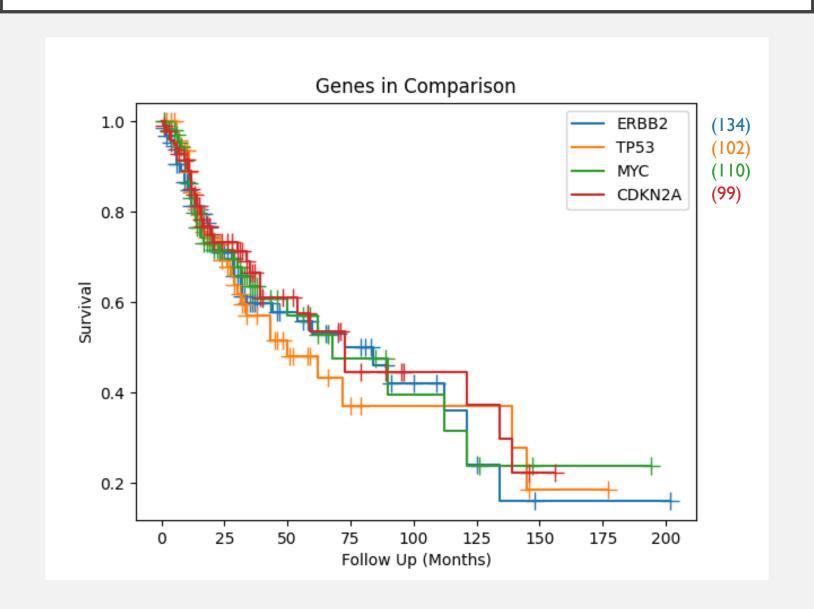
OVERVIEW DIAGNOSES

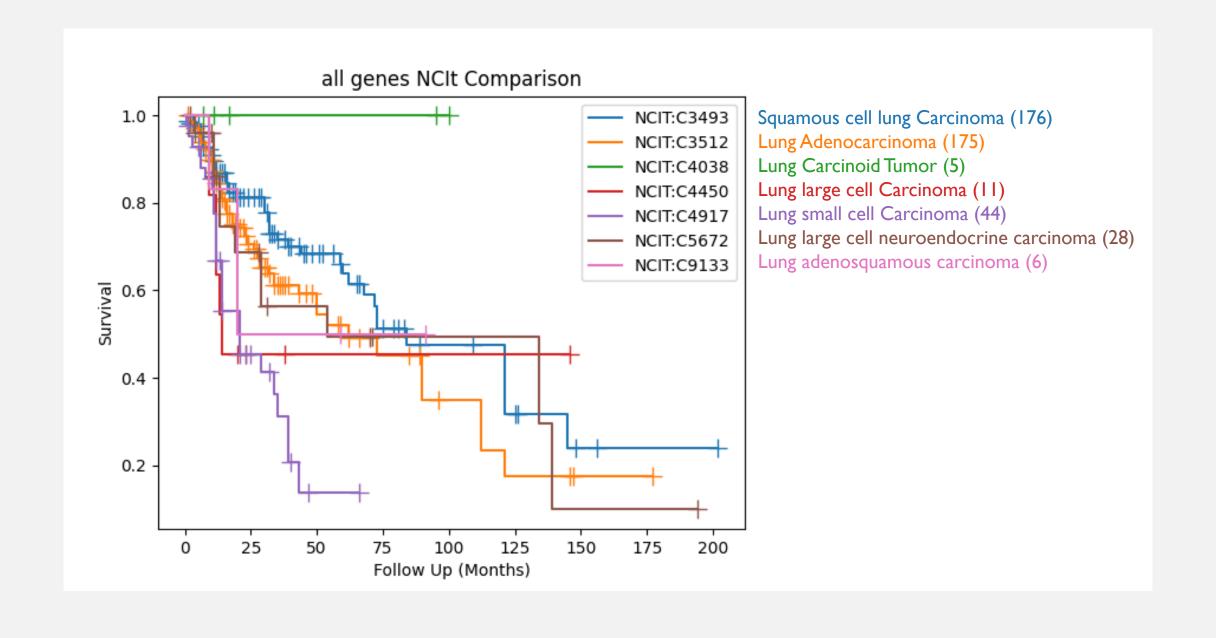
- C3493 Squamous cell lung Carcinoma
- C3512 Lung Adenocarcinoma
- C4038 Lung Carcinoid Tumor
- C4450 Lung large cell Carcinoma
- C4917 Lung small cell Carcinoma
- C5672 Lung large cell neuroendocrine Carcinoma
- C9133 Lung adenosquamous Carcinoma

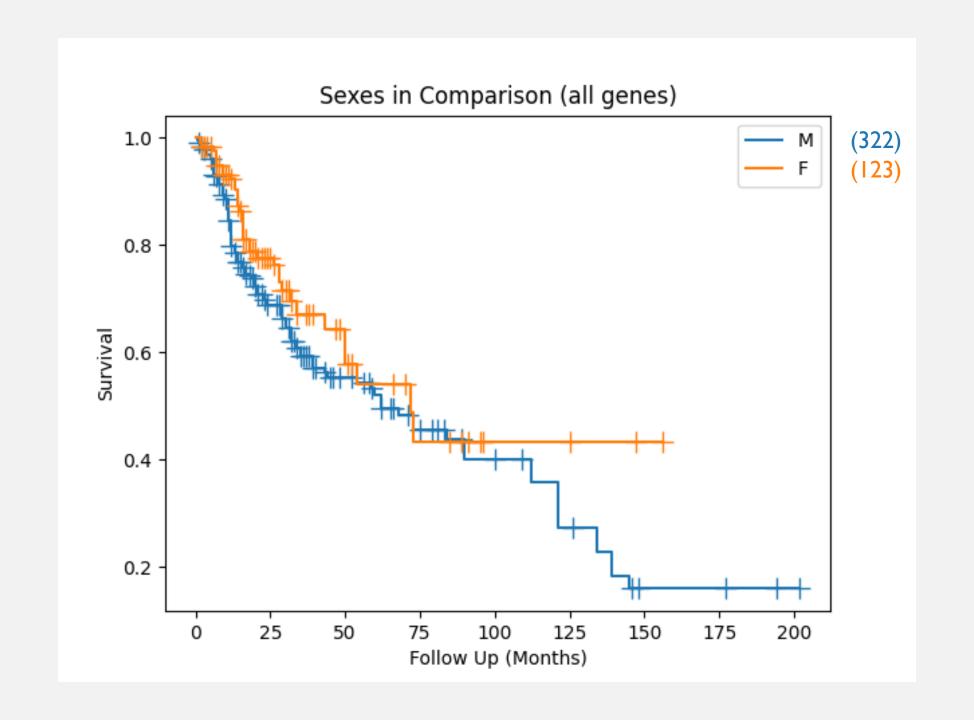
DATASETS

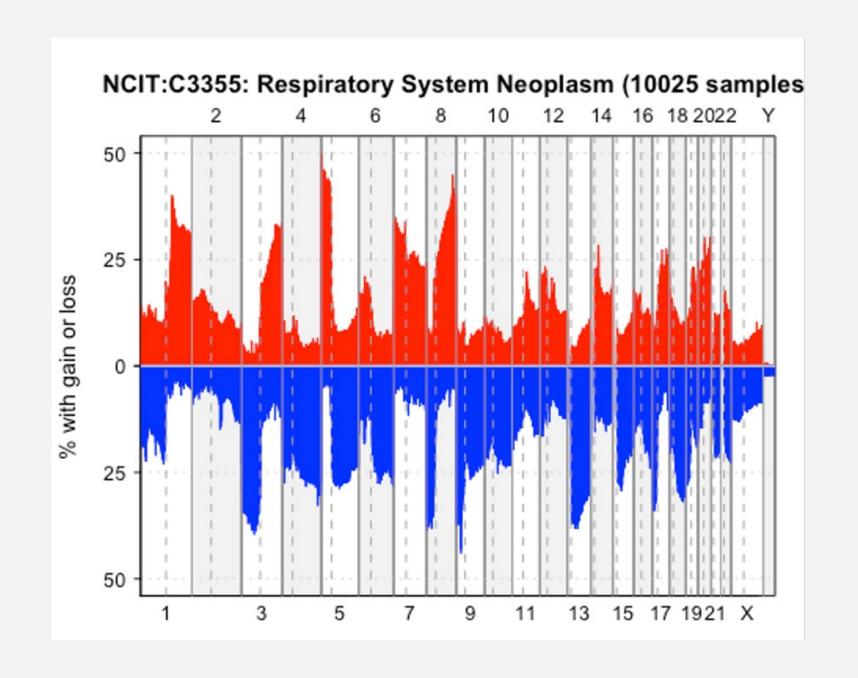
- "lung.csv": contains all information about patiens
- "ERBB2.tsv": contains information about patients with copy number gain in that gene
- "MYC.tsv": contains information about patients with copy number gain in that gene
- "TP53.tsv": contains information about patients with copy number deletion in that gene
- "CDKN2A.tsv": contains information about patients with copy number deletion in that gene
- Merge of "lung.csv" with "genes.tsv" leads to final dataset for analysis

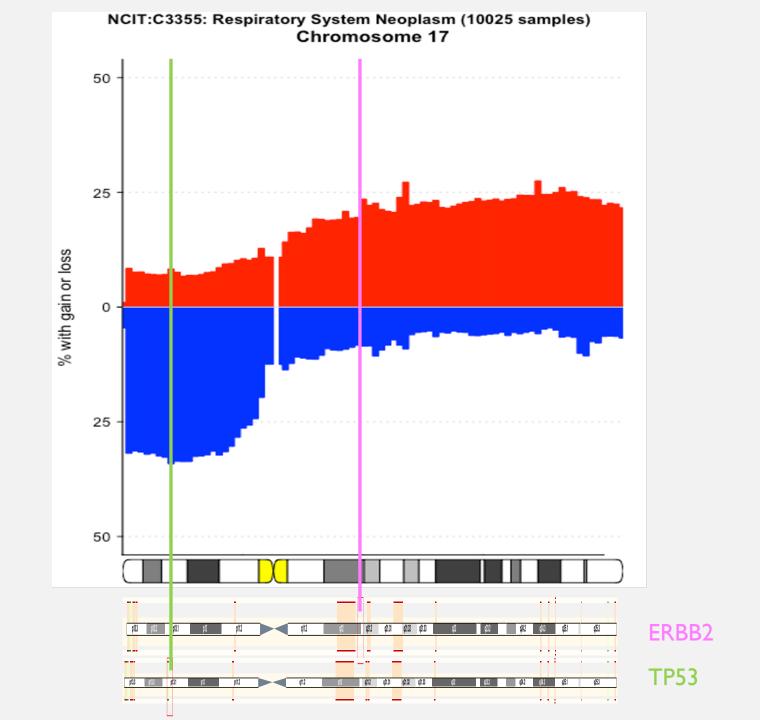
ANALYSIS

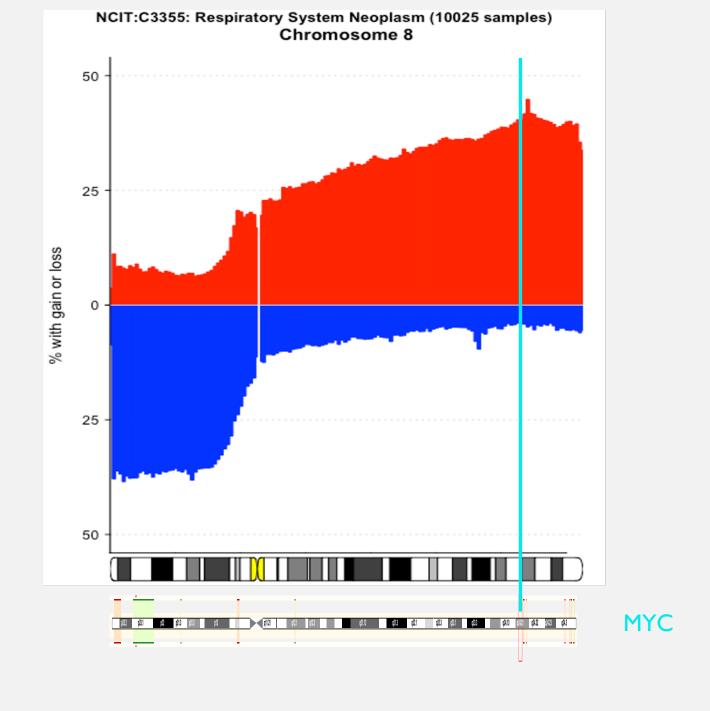


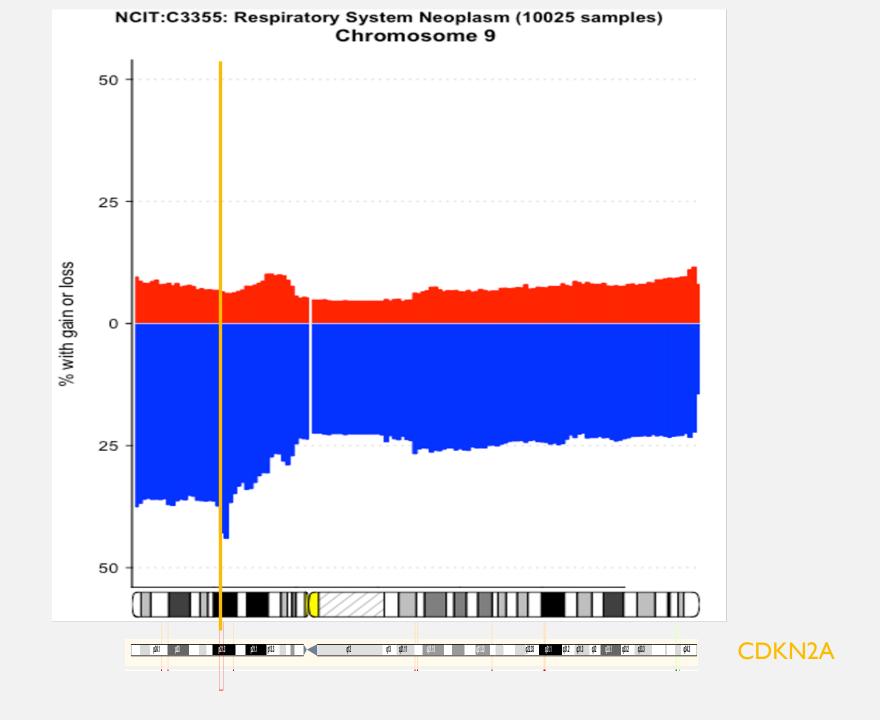












SUMMARY

- Kaplan meier plots are difficult to interpret with only little data
- The survivalrate of Lung small cell Carcinoma is worst of the different subtypes
- Females seem to have a slightly higher chance of surival than males
- In oncogenes occurs copy number gain
- In tumor supressor genes occurs copy number loss

SOURCES

- [1]
 <a href="https://ncithesaurus.nci.nih.gov/ncitbrowser/pages/concept_details.jsf?dictionary="https://ncithesaurus.nci.nih.gov/ncitbrowser/pages/concept_details.jsf?dictionary="https://ncithesaurus.nci.nih.gov/ncitbrowser/pages/concept_details.jsf?dictionary="https://ncithesaurus.nci.nih.gov/ncitbrowser/pages/concept_details.jsf?dictionary=

 NCI_Thesaurus&version=22.04d&code=C3355&ns=ncit&type=all&key=null&b=1
 &n=0&vse=null
- [2] https://wvcancercenter.com/specific-cancers/respiratory-cancer-facts/

PICTURES

- [i] https://lcfamerica.org/wp-content/uploads/2020/10/type-of-cancer-adenocarcinoma-1024x780-1.png